

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

The effect of knee arthroplasty on hindfoot alignment in patients with severe genu varum and genu valgum in Amiralmomenin hospital in Arak

Protocol summary

Summary

Aim of this study effect of knee arthroplasty on hindfoot alignment in patients with severe genuvarum and genuvalgum. This study is clinical trial ,self -controlled .This study 83 patient have arthroplasty .Inclusion criteria: age 50 and more; sever osteoarthritis.Exclusion criteria: neuromuscular disease; Previous knee infection that leads to deformity of knee; Knee joint destruction due to underlying disease except Knee osteoarthritis; previous fracture of knee; systemic arthritis.We recorded angle and angle correction of hind foot before and 6 months after surgery by long axial radiography.We measure 83 patients with angle of hind foot and correct angle by by long axial radiography before surgery in control group. We measure 83 patients in control group angle of hind foot by long axial radiography 6 month after surgery in intervention group.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016102230441N1**

Registration date: **2016-12-14, 1395/09/24**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2016-12-14, 1395/09/24

Registrant information

Name

Gholamreza Azarnia

Name of organization / entity

Arak University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

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Recruitment status

Recruitment complete

Funding source

Vice President of Research, Arak University Of Medical Sciences

Expected recruitment start date

2016-07-09, 1395/04/19

Expected recruitment end date

2018-07-10, 1397/04/19

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of knee arthroplasty on hindfoot alignment in patients with severe genu varum and genu valgum in Amiralmomenin hospital in Arak

Public title

The effect of knee surgery in patients with severe osteoarthritis

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: age 50 and more; severe osteoarthritis. Exclusion criteria: neuromuscular disease; Previous knee infection that leads to deformity of knee; Knee joint destruction due to underlying disease except Knee osteoarthritis; previous fracture of knee; systemic arthritis.

Age

From **50 years** old

Gender

Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: 83

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Vice chancellor for research, Arak University Of Medical Sciences

Street address

Arak, Sardasht, Basij Square, Payambar Azam Complex, Reaserch Center

City

Arak

Postal code

848176941

Approval date

2016-06-08, 1395/03/19

Ethics committee reference number

IR.ARAK.MU.REC.1395.57

Health conditions studied

1

Description of health condition studied

severe genu varum and genu valgum

ICD-10 code

Q74.1

ICD-10 code description

Congenital malformation of knee

Primary outcomes

1

Description

Angle of orthopedic

Timepoint

before and 6 months after surgery

Method of measurement

long axial radiography

Secondary outcomes

empty

Intervention groups

1

Description

We measure 83 patient with angle of hind foot and correct angle by by long axial radiography before surgery in control group.

Category

Treatment - Drugs

2

Description

We measure 83 patients in control group angle of hind foot by long axial radiography 6 month after surgery in intervention group.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Amiralmomenin hospital

Full name of responsible person

Dr Hosseinali Hadi

Street address

Amiralmomenin hospital, Sardasht, Arak

City

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor for Research, Arak University of Medical Sciences

Full name of responsible person

Dr Mohammad Rafiee

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Vice Chancellor for Research, Payambar Azam Complex, Basij square, Sardasht, Arak

City

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Grant name

-

Grant code / Reference number

-

Is the source of funding the same sponsor

organization/entity?

Yes

Title of funding source

Vice Chancellor for Research, Arak University of Medical Sciences

Proportion provided by this source

100

Public or private sector

empty

Domestic or foreign origin

empty

Category of foreign source of funding

empty

Country of origin**Type of organization providing the funding**

empty

Person responsible for general inquiries**Contact****Name of organization / entity**

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Full name of responsible person

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Position

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Sharing plan**Deidentified Individual Participant Data Set (IPD)**

empty

Study Protocol

empty

Statistical Analysis Plan

empty

Informed Consent Form

empty

Clinical Study Report

empty

Analytic Code

empty

Data Dictionary

empty